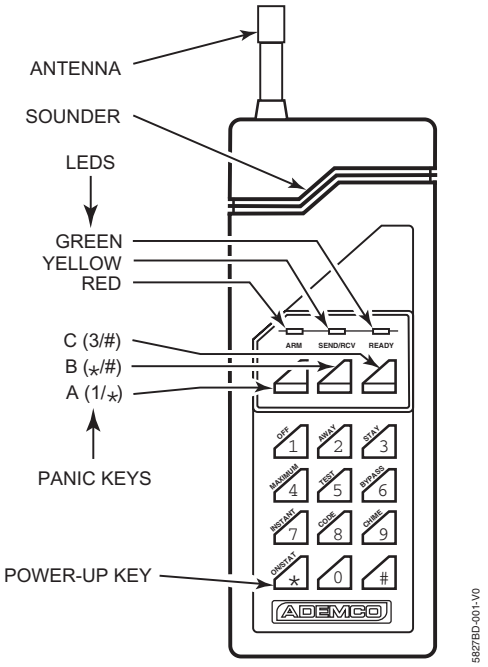
ADEMCO 5827BD

Wireless Bidirectional Console

Installation and Setup Guide

GENERAL INFORMATION

The 5827BD Wireless Bidirectional Console is designed to be used in conjunction with a 5800TM Transmitter Module. Additional 5827BDs (any quantity) may be used in conjunction with the same 5800TM. The 5800TM is compatible with any control panel that is *also* equipped with a 4281 type (5700 System) or 5881 type (5800 System) RF receiver.



5827 Bidirectional Console

The 5827BD can operate the protection system similarly to other consoles, via its keypad. In addition, its three LEDs (red, green, and yellow) and piezoelectric sounder can indicate status information relative to: system arming/ trouble/ emergency, RF transmission/confirmation, and 5827BD programming and power. The keypad configuration is similar to that of standard consoles. The [*] key, however, is also the [ON/STAT] (powerup and system status inquiry) key instead of a "READY" key, as it is on other consoles (see *OPERATION*). There are three panic keys: A, B, and C (comparable to other consoles' panic key pairs of 1/*), */#, and 3/# respectively).

The console, if so programmed, also features "Quick Key" operation, which allows use of the [#] key instead of entry of the security code when performing functions.

5800TM Transmitter Module

For every installation of one or more 5827BDs, one 5800TM is required. It complements the 4281 or 5881 RF receiver in that it transmits the information to be displayed on, or sounded by, the 5827BD. No modification to the control is necessary. It connects directly to the control's console connection points, as described later.

INSTALLATION

5827BD Bidirectional Console Installation

The console is designed to be portable, for use throughout the protected premises. If desired, it may be stored on its accompanying mounting bracket (easily installable via two countersunk mounting holes). Keyhole slots on the rear of the console slip onto two hooks on the mounting bracket, and the console is easily removable.

When operating, or selecting a location for storing the console, observe the same precautions as used for locating the wireless system's other transmitters (see the control panel's instruction manual). For example, operating the console on or near large metal objects may decrease range and/or block transmissions.

1. **Install the console's battery** by sliding off the battery compartment cover on its rear. Observe polarity! Replace the cover.
2. **Program the console's memory** as follows:
   a. **Power up the console** by depressing the [*] key. *The yellow LED blinks*. In case the console was previously programmed, the system status may also be annunciated (see Power-up and System Status Inquiry on next page).
   b. **Enter console programming mode** by depressing the [1] and [3] keys (both at the same time) for 3 seconds. Alternate blinking of the red and green LEDs confirms that the unit is in console programming mode.
   c. **Program the desired functions, in the order given in the table that follows.** Note that every sequence starts with a [*] and ends with a [#].

	FUNCTION	KEY SEQUENCE
1.	**Enter YOUR System's 4-Digit Master Code**	[*] [8] [4-Digit Master Code] [#]
2.	**Enable Quick Key Operation** (arm, disarm, and chime) or (Arm and chime, but *not* disarm)	[*] [1] [4-Digit Master Code] [#] or [*] [2] [4-Digit Master Code] [#]
3.	**Enter YOUR 5700/5800System's House ID** (e.g., 06) selected from 01-31	[*] [9] [0] [6] [#]
4.	**Enter RF System Used:** **5700 System** (4281 RF receiver) or **5800 System** (5881 RF receiver)	[*] [5] [7] [#] or [*] [5] [8] [#]
5.	**Exit console programming mode.**	[*] [#]

Notes: 1) Upon the detection of each closing '#', a confirmation sound is generated:
- following a valid entry, a triple beep
- following an erroneous entry, a single, long (2 sec) beep.

2) The 5827BD can be reprogrammed at any time.
3) Each time the console-programming mode is entered, Quick Key operation is disabled and must be reenabled, if so desired.

3. **Affix the appropriate panic key label to the space below any panic key that is active,** according to the function that has been programmed for it in the control. A sheet of labels accompanies the 5827BD.

Note: *Not all of the three panic keys may be active for the system with which the console is used.* This depends on the type of control used and its programming. Refer to the control's installation manual.

4. **Connect the provided antenna, if necessary,** by screwing it into its threaded connector at the top of the console. The 5827 has an internal antenna, and in many installations the system will operate adequately with this antenna alone. For large installations, however, it may be necessary to add the external antenna.

5800TM Transmitter Module Installation

Installation instructions accompany the 5800TM, but are given here as well, for your convenience.
Observe the same precautions in selecting a location for the 5800TM as for the system's 4281 or 5881 RF receiver, to insure good transmission and reception. *The 5800TM must be located next to the system's receiver (between one and two feet from the 4281/5881's antennas).* Do not install the 5800TM within the system control panel's cabinet. Mount it remotely, on its accompanying mounting bracket. The bracket is identical to the one that accompanies the 5827BD and may be mounted the same way.

PROGRAMMING

For an addressable system:

1. **Select on e of the following addresses for the 5800tm by removing its cover, and cutting the appropriate jumper(s) on its circuit board,** as follows:

FOR ADDRESS	CUT JUMPER(S)
28	RED (W1)
29	WHITE (W2)
30	BOTH

2. **Program the control panel,** by assigning the address selected above to one of the wired consoles in the system.

For a Non-Addressable System: No programming is required.

WIRING CONNECTIONS

Connect the 5800TM to the control panel's connection points, using the supplied connector with flying leads. Wire colors and functions match those for consoles:

RED	+12VDC
BLACK	Ground
GREEN	Data to Control Panel
YELLOW	Data from Control Panel
BLUE	*Not used*

OPERATION

Power-up and System Status Inquiry

Touching the [*] ([ON/STAT]) key powers up the 5827BD, and sends an inquiry to the 5800TM, requesting the system status to be annunciated (see table on next page). Subsequent depressions of the same key will initiate additional inquiries.

Notes: 1. Upon power-up (by depression of the [ON/STAT] key), the yellow LED will blink. The yellow LED will be lit during RF communication, indicating transmission is in progress or reception has just been completed. *If a low battery condition exists in the 5827BD, it will be displayed on wired consoles as zone 00.*

2. At any time (following a power-up), the depression of any key and its acceptance by the console will be indicated by a blink of the yellow LED, and a brief key actuation 'blip' will be heard. (As explained later, a panic key has to be continuously depressed for at least 2 *seconds* in order to power-up and/or be accepted by the system).

3. A long (2 second) beep, occurring within 4 seconds after power-up or following the last key depression (of a command or an inquiry) indicates lack of response from the control (via the 5800TM). Press the [ON/STAT] key again (or move to a new location and re-key your command).

Approximately 10 seconds after the last key depression, the 5827BD will automatically power down.

No subsequent LED or sound indications will occur until the unit is again powered up (thus, in chime mode, the chime is not annunciated by the 5827BD).

The following table shows the various status indications that can occur during the time that the unit is powered up:

SYSTEM STATUS INDICATIONS for 5827BD			
LED	**LED CONDITION**	**CONSOLE'S SOUNDER**	**SYSTEM STATUS**[1]
RED (ARM)	ON STEADILY	2 BEEPS[2]	ARMED AWAY OR MAXIMUM
		3 BEEPS[2]	ARMED STAY OR INSTANT
	BLINKING	PULSED BEEPING[3]	ARMED, FIRE ALARM IN PROGRESS, OR MEMORY OF IT IS PRESENT
		STEADY SOUND[3]	ARMED, BURGLARY IN PROGRESS, OR MEMORY OF IT IS PRESENT
		SILENT	DISARMED, BUT NOT YET CLEARED OF ALARM MEMORY HISTORY (BURGLARY OR FIRE)

SYSTEM STATUS INDICATIONS for 5827BD (continued)			
LED	**LED CONDITION**	**CONSOLE'S SOUNDER**	**SYSTEM STATUS**[1]
GREEN (READY)	ON STEADILY	1 BEEP[2]	DISARMED, READY TO ARM
	BLINKING	SILENT	DISARMED, NOT READY TO ARM
YELLOW[4] (SEND/RCV)	BLINK	BRIEF "BLIP"	KEY DEPRESSION AFTER POWER-UP
	BLINK	SILENT	UPON 5827BD POWER-UP
			RF TRANSMISSION IN PROGRESS OR RECEPTION JUST COMPLETED

and, as explained in the *INSTALLATION section for the 5827BD:*

RED & GREEN	ALTERNATELY BLINKING	SILENT	5827BD IS IN CONSOLE PROGRAMMING MODE

1 With 4111CM and VISTA 20 systems, *status monitoring* is restricted to Partition 1; however, each partition can be *controlled* by 5827BDs programmed to the partition's House ID.
2 Upon the depression of the [ON/STAT] key or following an ARM or DISARM sequence.
3 May be toggled off/on (any number of times) by means of the [ON/STAT] key. Upon toggling "off," the armed status (2 or 3 beeps) is reannunciated. See *Alarm Memory* on next page.
4 No yellow light blinking may indicate a low battery (also displayed on wired consoles as "00").

Routine Operation

The routine operation of the 5827BD (Arm, Disarm, Chime) is similar to the operation of other consoles used with the system (as described in the system's User's Manual).

Press the [ON/STAT] key before performing the desired operation.

Note: The following considerations are necessitated by the fact that there is no zone display on the 5827BD:

a. If the system is "not ready to arm" (green LED blinking), a conventional console's display can determine which zone is "not ready."
b. Bypassing protection zones should only be performed at a conventional console so that it can be determined which zones are to be bypassed.
c. Alarm memory history, if present (see *Alarm Memory* on next page), should be cleared only at a conventional console so that the zone(s) displayed there that were in alarm condition can first be determined.

Quick Key Operation

If programmed for Quick Key operation, the 5827BD permits the use of the [#] key (instead of the usual 4-digit security code) for all functions, *or for all functions except disarm, as selected earlier.*

First press the [ON/STAT] key.

Next press the [#] key and the desired function key as follows:

Quick Key Arm:

This is similar to the QUICK ARM function via conventional consoles, but once programmed here, it is always functional, whether the system is programmed for QUICK ARM or not.

To Arm AWAY, enter: [#] + [AWAY]
To Arm STAY, enter: [#] + [STAY]
To Arm INSTANT, enter: [#] + [INSTANT]
To Arm MAXIMUM, enter: [#] + [MAXIMUM]

Quick Key Disarm:

This is a unique function. Conventional consoles do not allow "quick" disarming.

To DISARM, enter: [#] + [OFF]

Quick Key Chime

To toggle CHIME mode on or off, enter [#] + [CHIME]

Panic Keys

The 'A', 'B', and 'C' keys (see the diagram) are comparable to other console key pairs of 1/✳, ✳/#, and 3/# respectively and their function will correspond to the control's programming for them.

Not all of the three panic keys will be active for the system with which the console is used. This depends on the capabilities of the control used and its programming.

No prior depression of the [ON/STAT] key is needed.

Depression of any of the 3 panic keys for two seconds causes the transmission of its function (if/as programmed by the control) and powers up the console as well. The yellow transmission/reception LED will light, a brief key actuation "blip" will occur, and the display of the system status will be initiated, but (for personal safety purposes) confirmation sounds will *not* be emitted.

Alarm Memory

If the [ON/STAT] key is pressed during or following a fire or burglary alarm-sounding period, the 5827BD console will annunciate the appropriate warning sounds.

Successive depression of the [ON/STAT] key will toggle these sounds off and on to alternate with the annunciation of the system's armed or disarmed status.

The system can be disarmed by entering the appropriate disarm sequence at the 5827BD, or any console.

Alarm memory *history* will still be present, however, as evidenced by the 5827BD's blinking red LED, and silent sounder.

Normally, alarm memory history is *cleared* by entering the system's disarm sequence a *second* time after the system is disarmed. In this case, this second disarm sequence should be performed at a conventional console, after the zone(s) displayed there that were in alarm condition have been determined.

5827BD SPECIFICATIONS

Physical: 2-3/8" W x 6-1/4" H x 1-1/4" D (61mm x 159mm x 32mm)

Battery 9-volt Alkaline. Ademco 464, Duracell MN1604, or Eveready 522. (If a low battery condition exists, it will be displayed on wired consoles as zone 00).

LEDs: Red, Green, and Yellow, for system status indications.

Sounder: Piezoelectric, 4200 Hz, for confirmation, trouble and emergency beeps and sounding on alarm. In addition, upon lack of response from the control, a long (2 second) beep is heard.

REFER TO THE INSTALLATION INSTRUCTIONS FOR THE CONTROL PANEL WITH WHICH THIS DEVICE IS USED, FOR DETAILS ON LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

FCC ID; CFS8DL5827BD-1

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. **Industry Canada: 1748A5827BD1**

FEDERAL COMMUNICATIONS COMMISSION (FCC) STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user or installer may find the following booklet prepared by the Federal Communications Commission helpful:

"Interference Handbook"

This booklet is available under Stock No. 004-000-00450-7 from the U.S. Government Printing Office, Washington, DC 20402.

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

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165 Eileen Way, Syosset, New York 11791

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